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WHITE RIVER SHALE PROJECT
ABANDONMENT RECLAMATION COSTS JUL 16 1982
PHASE I THROUGH 1985

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DIVISION OF
OIL, GAS & MINING

The following cost projections to abandon the White River Shale Project are based upon only those facilities to be installed through 1985. All activities during this period involve only mine development. These include the following:

- o Production decline and air intake shaft development
- o Plant site road development
- o Construction camp development
- o Production well development
- o Mine service building and ancillary building development
- o Water and wastewater treatment and storage
- o Runoff retention dam at mine site
- o Solid waste disposal facility
- o Explosives magazine development
- o Electrical distribution facilities

For purposes of abandonment cost estimation, it is assumed that the runoff retention dam and pond and the Deseret G&T electrical transmission line loop will remain on-tract. The cost estimate also considers the salvage value of reuseable materials and includes a 20% profit and overhead for sub-contractors.

ABANDONMENT COSTS

<u>ITEM</u>	<u>DEMOLITION/ REMOVAL</u>	<u>VALUE</u>	<u>COST</u>	<u>REMARKS</u>
Electrical System				
Camps	53,000	44,000	9,000	Removal of poles, cables substations, switchgear, and diesel generators. Original equipment cost estimate \$440,000 for camp & \$3.6 million for mine.
Mines	439,000	365,000	74,000	Salvage at 10% equipment capital.
Major Equipment	105,000	30,000	75,000	Removal of 3 tanks, 3 treatment plants, surface decline conveyor equipment, and 7 pumps. Salvage at 10%, excluding tanks.
Buildings/ Earthwork	845,000	192,000	662,000	Removal of mine service building, camps, drivehouse, and switchcase (120,000 SF @ \$4.20/SF). Topsoil reclamation (100,000 yards @ \$3.50/yard).
Revegetation				
Seed	87,000	-0-	87,000	110 acres @ 20 lb./acre @ \$39.50/lb.
Transplant	385,000	-0-	385,000	110 acres @ 1750 plants/acre @ \$2.00/plant
Seal Mine	80,000	-0-	80,000	10 foot plug in decline and shaft (300 yards concrete).
Management Fee	<u>100,000</u>	<u>-0-</u>	<u>100,000</u>	
TOTAL	\$2,103,000	\$631,000	\$1,472,000	